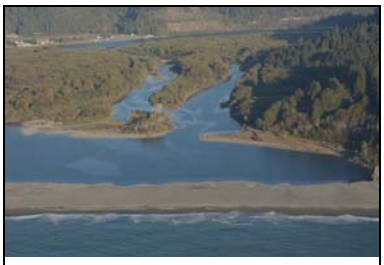
CCA #1 Klamath River

DESCRIPTION

The Klamath River is the second largest river by volume in California, flowing southwestward from the Cascade Mountains for approximately 263 miles through Oregon and California to its final four river miles within the California coastal zone. Primary uses of this river include domestic, agricultural, and industrial water supply; cold and warm water fisheries; and recreation.

The Klamath River is impaired by nutrients and organic enrichment (primarily from grazing, dairies, and irrigated agriculture in the upper watershed), and temperature (due to damming and riparian vegetation removal). Sediment and bacteria are also Nonpoint Source (NPS) pollutants of concern in the watershed. A major fish kill in late 2002 was reportedly attributable to a combination of factors, including low stream flows, high water temperatures, heavy fish traffic, and fish disease.



Klamath River Estuary

For more photos, visit: www.californiacoastline.org.

REASON FOR CCA IDENTIFICATION

This watershed flows into the 'Redwood National Park' **Area of Special Biological Significance** (ASBS), which is a State Water Quality Protection Area (SWQPA). The Klamath River is also a 2002 303(d)-listed **impaired waterbody that flows into a Marine Protected Area** ('Redwood National Park' ASBS), and was one of the original CCAs identified in 1995 as an **impaired waterbody that flows into an estuary.**

POLLUTED RUNOFF CONDITIONS

	Top 5 Runoff Pollutants of Concern					Efforts to Address Pollutants (See next page)
	2002 303(d)-Listed Pollutants TMDL Priority (& Proposed Completion if available)			Other Pollutants[1]		
Selected Coastal Zone Waterbodies	**Nutrients**	**Organic Enrichment**	**Temper-ature**	**Sediment**	**Bacteria**	
Lower Klamath River, Klamath Glen ▲	▲ Medium	▲ Medium	▲ Medium	▲	▲	
Salt Creek ■						
Spruce Creek ●						
Richardson Creek ♦						
Other Waterbodies □						
Potential Sources of Pollutants in Coastal Waterbodies						
Agriculture	▲	▲		▲	▲	a-g, i
➢ Crop Production	▲	▲				
➢ Grazing	▲	▲		▲		
➢ Intensive Animal Feeding	▲					
➢ Agriculture--Animal		▲				
➢ Agricultural Storm Runoff	▲	▲		▲	▲	
➢ Subsurface Drainage	▲	▲				
➢ Irrigation Tailwater	▲	▲				
Forestry (Silviculture)				▲		a, c-h
Hydromodification			▲			a, c-h
➢ Dam Construction			▲			

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Potential Sources of Pollutants, continued	Nutrients	Organic Enrichment	Temper-ature	Sediment	Bacteria	Efforts to Address Pollutants
➢ Upstream Impoundment		▲	▲			
➢ Flow Regulation/ Modification		▲	▲			
➢ Water Diversions			▲			
➢ Instream Mining				▲		
Wetlands & Riparian Areas						a, c-h
➢ Removal of Riparian Vegetation			▲			
➢ Channel Erosion			▲			
Habitat Modification			▲			a, c-h

[1]Klamath River is on the State Water Resources Control Board's Monitoring List for sediment. Information on sediment and bacteria as pollutants of concern, and on potential sources of sediment and bacteria, is from the North Coast Regional Water Quality Control Board.

MAJOR EFFORTS TO IMPLEMENT NPS MANAGEMENT MEASURES

a)	**Total Maximum Daily Load (TMDL) Development for Klamath Watershed**		http://www.waterboards.ca.gov/northcoast/
North Coast Regional Water Quality Control Board	David Leland	(707) 576-2069	dleland@waterboards.ca.gov
➢ Provides a quantitative assessment of water quality problems, contributing sources of pollution, and pollutant load reductions or control actions needed to restore and protect the beneficial uses of an individual impaired waterbody.			
b)	**Agricultural Water Quality Projects**		
Del Norte Resource Conservation District & USDA Natural Resources Conservation Service	Steven Westbrook & Andrea Souther	(707) 487-3516 (707) 487-7630	rrsteven@charterinternet.com andrea.souther@ca.usda.gov
➢ Collaborative efforts to address agricultural-related water quality impacts.			
c)	**Klamath Basin Fish Health Assessment Team (KBFHAT)**		
U.S. Fish & Wildlife Service and partners	Darla Eastman	(530) 842-5763	darla_eastman@fws.gov
➢ Workgroup to assess fish health.			
d)	**KRIS Web for Klamath River**		http://www.krisweb.com/
Klamath River Information System (KRIS)	Pat Higgins	(707) 822-9428	phiggins@humboldt1.com
➢ Organizes information (maps, data tables, charts, photographs, and bibliographic resources) relevant to fisheries and water quality into a PC-based computer program, so it can be shared among agencies, landowners, and citizens.			
e)	**Klamath-Siskiyou Watershed Monitoring Project**		http://endeavor.des.ucdavis.edu/wpi/ProjectDescription.asp?ProjectPK=3251
North Coast Environmental Center	Tim McKay	(707) 825-8428	NEC@igc.apc.org
➢ This project's focus is to protect and improve water quality, and targets chinook and coho salmon, cutthroat trout, rare amphibians, northern spotted owl, marbled murrelet, and furbearers.			

f)	**Lower River Klamath River Watershed Enhancement Program**		http://pacific.fws.gov/yreka/Annual-Reports/FY-2003-Annual-Rpt.pdf http://www.ncidc.org/
Northern California Indian Development Council		(707) 445-8451	konnib@NCIDC.org
➢ Provides support and technical assistance for anadromous fish rearing and habitat enhancement on the Klamath River, and conservation of historic and archeological resources for Indian and Native American Communities.			
g)	**Klamath Forest Alliance**		http://www.sisqtel.net/~klamath/
		(530) 469-3221	wildsalmon@starband.net
➢ Organization working to protect and restore the forests and rivers of the Klamath Mountains.			
h)	**Scott River Restoration /Education Project (2003-2004)**		http://etna.echalk.com/
Etna Elementary School District--Dept. of Fish & Game Grant			
➢ Developing and implementing Scott Valley watershed restoration and education project, focusing on student and adult community regarding the habitat requirements, economic, and cultural importance of our salmon population.			
i)	**Klamath Watershed Team**		http://www.nrcs.usda.gov/feature/klamath/
U.S. Dept. of Agriculture, Natural Resources Conservation Service; and local partners	Peter Townley	(530) 841-0640	peter.townley@ca.usda.gov
➢ Bringing voluntary, locally-led conservation to landowners in the Klamath River Basin. Provides technical assistance in conservation planning and on-farm conservation implementation through federal financial programs.			

REGULATORY/PLANNING JURISDICTIONS

➢ Del Norte County, Community Development Dept.	http://www.co.del-norte.ca.us/	Ernest Perry	(707) 464-7253	eperry@co.del-norte.ca.us
➢ Redwood National & State Parks	http://www.nps.gov/redw/	Chris Heppe	(707) 464-6101	chris_heppe@nps.gov
➢ Yurok Tribe, Watershed Program	http://www.yurok.com/	Walt Lara III	(707) 488-0108	
➢ Hoopa Valley Tribal Environmental Protection Agency	http://www.hoopa-nsn.gov/departments/tepa/tepa.htm	Pliny McCovey, Jr.	(530) 625-5515	tepa@hoopa-nsn.gov
➢ Calif. Coastal Commission, Water Quality Unit	http://www.coastal.ca.gov/nps/npsndx.html	Vanessa Metz	(707) 445-7873	vmetz@coastal.ca.gov
➢ North Coast Regional Water Quality Control Board, NPS Complaint Response	http://www.waterboards.ca.gov/northcoast/	Diana Henrioulle-Henry	(707) 576-2350	dhenrioulle-henry@waterboards.ca.gov
➢ State Water Resources Control Board, ASBSs	http://www.swrcb.ca.gov/plnspols/oplans/asbs.html	Connie Anderson	(916) 341-5280	csanderson@waterboards.ca.gov
➢ California Coastal Conservancy	http://www.coastalconservancy.ca.gov/	Karyn Gear	(510) 286-4171	kgear@scc.ca.gov
➢ Calif. Dept. of Fish & Game	http://www.dfg.ca.gov/	John Mello	(707) 441-5755	jmello@dfg.ca.gov
➢ Caltrans, Stormwater Management	http://www.dot.ca.gov/hq/env/stormwater/	Alex Arevalo	(707) 445-6600	Alex_Arevalo@dot.ca.gov

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➢ U.S. Forest Service, Six Rivers National Forest	http://www.fs.fed.us/r5/sixrivers/	Jeff Walter	(707) 442-1721	jwalter@fs.fed.us
➢ U.S. Forest Service, Klamath National Forest	http://www.fs.fed.us/r5/klamath/	Judith McHugh	(530) 842-6131	jmchugh@fs.fed.us
➢ U.S. Bureau of Reclamation, Klamath Basin Area Office	http://www.usbr.gov/mp/kbao/	Rae Olsen	(541) 880-2543	rolsen@mp.usbr.gov